

Convex Figures and Polyhedra, by A. L. A. Lyusternik

RUSSIAN, bk, Vypuklye Figury i Mnogogranniki.

D.C. Heath Co., Publ.
205 Columbus Ave.
Boston 16, Mass.

Per Memo: MSG
16 Dec 60

8

Convex Functions and Orlicz Spaces, by M. A.
Krasnosel'skiy, Ya. B. Rutitskiy, 219 pp.

RUSSIAN, bk, Vypuklye Funktsii i Prostranstva
Orlichia, 1958.

AEC Tr-4311

Sci - Phys
Jul 61

157, 426

Table of Contents and Extracts From the Book,
Growing Potatoes, by V. S. Lekhnovich, 6 pp.

RUSSIAN, bk, Vyrashch Kartofeliya, Leningrad,
1949, 59 pp.

Sci Tr Center RT-2428

Scientific - ~~Russiak~~ Biology
Dec 55 CTS/DEX

28/472

S-580/63

Conclusion, by A. R. Luriya (SF-~~222723~~)

RUSSIAN, bk, Vyshkiye Kortikovyye Funktsii Cheloveka,
Moscow, 1962, pp 395-397.

*JPRS

Sci & Med

Jun 63

S-586/63

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Moscow, 1962, pp 430-432.

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S.i - Med

Jun 63

Economy and High Efficiency for Machines
and Instruments, 11 pp.
RUSSIAN, np, Vyshka, 20 Oct 1964, p 2.
JPRS 20982

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Mar 65

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(TD 21 Mar)

R-8026-D
6 Mar 67

Hydrothermal Synthesis of Fibrous Silicates, by
A. D. Fedoseyev, et al.
RUSSIAN, per, Vysokikh Temperature, Adad. Nauk SSSR,
Inst. Khim Silikatov, 1963, pp 198-2-7

(10 pp.)

The Upper Layers of the Atmosphere, by
I. A. Kivoetikov, 577 pp.
RUSSIAN, bk. Vysokie Sredy Atmosfery, Leningrad,
1964. 9227474-V
NASA TT P-315

Sci-ES, A
Jun 65

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High and Ultra-High Pressures in Chemistry,
by M. G. Sonikberg.
RUSSIAN, bk, Vysokie i Sverkhvysokie Davleniya
v Khimii, 1958, 56 p.
NLL R. 34822

Sci-Chem
June 66

301,455

High Mountain Forest Soils of Eastern Tibet,
by S. V. Zonn, 325 pp.
RUSSIAN, bk, Vysokogornye Lesnye Pochvy Vos-
tochnogo Tibeta, 1964, pp. 1-236.
JPRS 31529

USSR
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Aug 65

285,699

T/C and bk review
High-Refractory Materials and Oxide Product,
by S. G. Tresvyatetskiy, A. M. Cherepanov, 5 pp.

RUSSIAN, bk, Vysokoognepornyye Materialy i
Izdeliya iz OKSITOV, NOSEN, 1957, 246 pp.

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Head, Lib Sv Sec
Air Info Div, Lib Cong

Polymers with a Conjugated Bond System and
Heteroatoms in the Conjugation Chain, XX.
Synthesis of Polymeric Phthalocyanines and
Investigation of their Basic Physicochemical
Properties, by A. A. Berlin, L. G.
Cherkashina, E. I. Balabanov, 16pp.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol 11, No 13/14, 1941, pp 1081-
1091.
CFSTI TT-64-18404.

322,348

Sci - Chemistry
Mar 67

A Study of the Molecular Structure of
Synthetic Fibers. XIII. Polyenathamide, by
E. S. Fainberg,

RUBSTAN, per, Vysokomol Soedineniya, Vol I,
No 1, 1959, pp 17-20.

ATS RJ-2117

Sci - Chem

OTS 61-20631

May 60

115, 404

Polymerization of Isoprene with a Butyl Lithium Catalyst, by A. A. Korotkov, N. S. Chesnokova, L. E. Trukhannova, 11 pp.

RUSSIAN, yer, Vysokomol Soedin, Vol I, No 1, 1959,
pp 46-56.

PP

Sci - Chem

Apr 61

The Interaction Between Tetramethyl Thiuram Disulphide and Rubber and Compounds Containing an Active Hydrogen Atom in the Molecule, by D. A. Dogadkin, V. A. Shernshnev, 13 pp.

MEGIAJ, ger, Vysokomol Soedin, Vol I, No 1, 1959,
pp 53-67.

PP

Sci - Chem

Apr 61

Emulsion Polymerization Under the Influence of
 γ -radiation, by L. P. Noshirova, M. K. Yakovleva,
A. V. Intveycova, 7 pp.

RUSSIAN, por, Vysokomol Soedin, Vol 1, No 1, 1959,
pp 63-71.

PP

Sci - Chem

Apr 61

Synthesis and Mechanical Properties of
Isotactic Polystyrene, by V. A. Kargin,
V. A. Kabanov, I. Yu. Marchenko, 10 pp.

RUSSIAN, per, Vysokomelkulyarnyye
Soyedineniya, Vol I, No 1, 1959, pp 94-102.

Sci
Mar 62

ATB-04M39R
ATB/AJ-2407

188,899

Vol IV, No 2

Preparation and Investigation of the Properties
of Graft Copolymers Based on Starch and Styrene,
by V. A. Nargin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 1.
1959, pp 114-122.

AT&T RJ-2127

AT&T 83L 36R

Sci - Chem

May 60

115,413

The Interaction of Phenyl- β -naphthylamine With
Benzoyl Peroxide and the Effect of *o*-Benzoyl- α -
Phenyl- α - β -Naphthylhydroxylamine on the Oxidation
of Rubber, by B. A. Dogadkin, E. N. Belyayeva, 3 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 1, 1959,
pp 123-125.

PP

Sci - Chem

Apr 61

A Study of Macroradicals in Polymerization and
Degradation Processes. Part 1, by S. E. Bresler,

RUSSIAN, per, Vysokomol Soedineniya, Vol I,
No 1, 1959, pp 132-137.

ATS RJ-2121

Sci - Chem

May 60

also Polymer Sci USSR
Polymer Prog Vol 1, no 1
115, 408

Indicatrix for the Light Scattering of Polymer
Solutions and Volume Effects, by V. Ye. Yerkin, 7 pp.

NUSSLIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol I,
No 1, 1959, pp 138-142.

SLA 60-16649 alt s 63-18243

Sci

Apr 62

190,255

Vol IV, No 6

<p>Mikhailov, N. V., Fainberg, E. Z., and Corbacheva, V. O. A STUDY OF THE MOLECULAR STRUCTURE OF STEREOREGULAR POLYMERS. I. ISOTACTIC POLYPROPYLENE. 9 May 62 [1-1p]. Order from OTS or SLA \$1.60 63-10781</p> <p>Trans. of <u>Vysokomol[ekulyarnye] Soed[ineniya]</u> (USSR) 1959, v. 1, no. 1, p. 143-148.</p> <p>DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymers, Physical properties, Chemical properties, Molecular structure, X-ray diffraction analysis, Calorimetry, Viscosity, *Plasticizers, *Heptanes.</p> <p>This paper gives the results of the study of the physico-chemical properties of isotactic polypropylene on the basis of X-ray investigations, data of heat capacity and viscosity of the dilute solutions. (Materials--Plastics, TT, v. 10, no. 1)</p>	<p>63-10781</p> <p>I. Mikhailov, N. V. II. Fainberg, E. Z. III. Corbacheva, V. O. IV. Title: Isotactic...</p>	
Office of Technical Services		

Formation of Graft Polymers by the Oxidation
of Cellulose, by V. A. Kargin, et al. Ural

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya,
Vol I, No 1, 1959, pp 149-151.

OTS 60-23810
DSIR LIU RTS 1487

(7s. 6d.)

Sci - Chem

May 60

116617

Yang, Lin, Derevitskaya, V. A. and Rogovin, Z. A.
DÉVELOPPEMENT DES PROCÉDÉS DE SYNTHÈSE
DES ESTERS DE CELLULOSE AVEC LES ACIDES
AMINES N-SUBSTITUÉS (Synthesis of Cellulose Esters
with N-Substituted Amino Acids). Sp. 6 refs.
Order from OTS, ETC or CNRS \$0.80 62-26490

Trans. In French of Vysokomolekulyarnye Soedineniya
(USSR) 1959, v. 1, no. 1, p. 157-161.

DESCRIPTORS: *Cellulose esters, *Amino acids,
Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 10, no. 7)

62-26490

I. Yang, Lin.
II. Derevitskaya, V. A.
III. Rogovin, Z. A.
IV. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

Study of the Molecular Structure of Synthetic Fibers. XIV. Physicochemical and Physomechanical Properties of Polyamides in the Polycaprolamide-Polyundecanamide Series, by N. V. Mikhailov,

RUSSIAN, per, Vyssokomol Soedineniya, Vol I,
No 2, 1959, pp 185-190.

AT&T RJ-2118
AT&T 5277 374

Sci - Chem

May 60

115405

Investigation of the Anisotropy of Electrical Conductivity of Polymeric Electrolytes, by V. A. Kargin, S. Ya. Mirline, Yu. F. Nagornaya, 13 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 191-200.

PP

Sci - Chem

Apr 61

Mikhailov, N. V. and Fainberg, E. Z.
STUDIES ON THE MOLECULAR STRUCTURE OF
SYNTHETIC FIBERS. XV. THERMOCHEMICAL
PROPERTIES OF THE POLYAMIDE SERIES: POLY-
CAPRAMIDE TO POLYUNDECANAMIDE. [1961] {8} p.
7 refs.

Order from OTS or SLA \$1.10

61-20637

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1 [no. 2] p. 201-207.

DESCRIPTORS: *Synthetic fibers, Materials, *Amides,
Properties, Thermodynamics, Polymers, Heat of
solution, Phase transitions, Methanes, Ethylenes,
Polymers, Molecular structure, Thermochemistry,
Fibers

A comparative study was made of the thermodynamic
properties of the polymers of the polyamide series:
polycapramide to polyundecanamide. On the basis of
(Materials--Textiles, TT, v. 7, no. 5) (over)

61-20637

I. Mikhailov, N. V.
II. Fainberg, E. Z.
III. Title: Thermochemical ...

Office of Technical Services

Heterochain Polyamides. XI. Synthesis and
Study of Polyamides Containing Sulfide and
Sulfone Sulfur in the Chain, by V. V. Korshak,
et al.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol I, 1959, pp 208-214.

ATC/RJ-2439
ATB 37041K

Sci - Chem

1/38,280

Serebryakova, Z. G. and Mikhailov, N. V.
INVESTIGATION OF THE MOLECULAR STRUCTURE
OF SYNTHETIC FIBERS. XVI. INVESTIGATION OF
THE SORPTION PROPERTIES OF POLYAMIDE
FIBERS AS A FUNCTION OF THEIR STRUCTURE.
(1961) [11]p. 20 refs.

Order from OTS or SLA \$1.60

61-20644

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 2, p. 222-229.

DESCRIPTORS: *Synthetic fibers, *Molecular structure, Fibers, Adsorption, Absorption, Amides, Polymers.

It was established that sorption of water vapor by capron fiber is not connected with the magnitude of external and internal surface, but rather with terminal -CONH- groups of the polymer and occurs by a (Physics-Molecular, TT, v. 7, no. 6) (over)

61-20644

I. Serebryakova, Z. G.
II. Mikhailov, N. V.
III. Title: Investigation of
the sorption...

Office of Technical Services

The Diffusion Theory of Adhesion, by S. S.
Voyutskiy.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol I, No 2, 1959, pp 230-239.

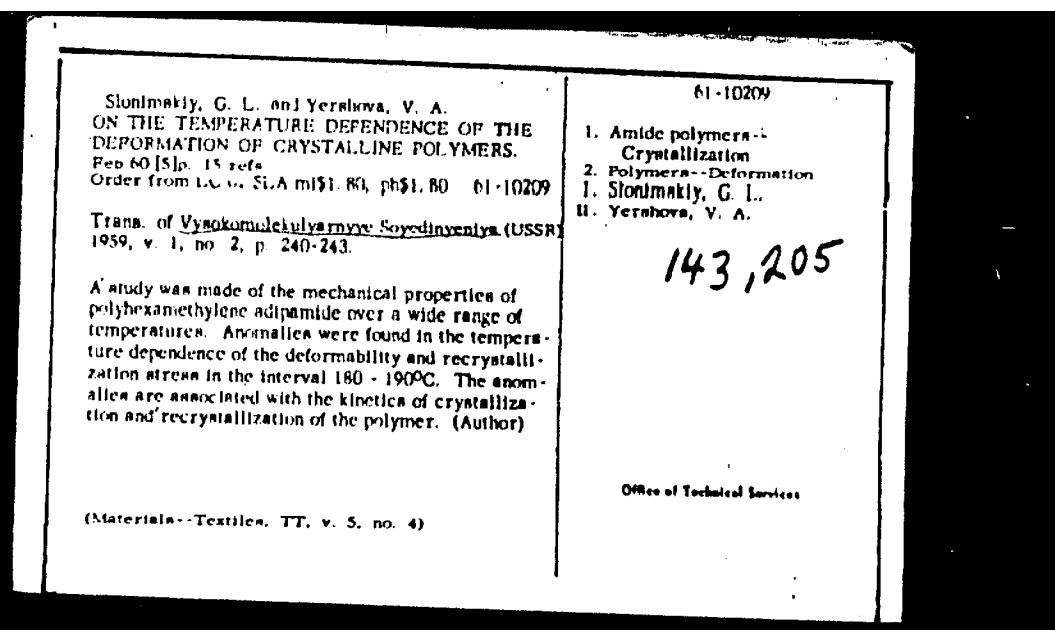
S-A 61-13474
DSIR LLU RTS 1505

M-13474 (200)

Sci - Phys

128, 835

Oct 60



The Action of Binary Systems of Vulcanization
Accelerators, by B. A. Dogadkin, M. S. Fel'dahtein,
E. N. Belyayeva, 14 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 254-264.

PP

Sci - Chem

Apr 61

Polymerization in Systems Obtained by the Method of
Molecular Beams, by V. A. Karzin,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 2,
1959, pp 265-268.

ATS RJ-2124

Sci - Chem

May 60

115 410

<p>Kitaygorodskiy, A. I. and Tsvankin, D. Ya. THE STRUCTURE OF CELLULOSE. I-II(K Voprosy Strukture Tsellulozy. I-II). Feb 61 [24]p. 42 refs. RTS 1595. Order from LC or SLA m1\$2.70, ph\$4.80 t1-19243 Trans. of <u>Vysokomolekularnyye Soyedineniya (USSR)</u> 1959, v. 1, no. 2, p. 269-286</p> <p>One-dimensional diffraction on the X-ray diagrams of cellulose fibres was studied. The cause of one-dimensional diffraction is a statistical dispersion of the centres of chains in the equatorial plane (\perp 2) and a deviation of chains from their proper course along the axis (\parallel 2). There are no irregular regions as regards the arrangement of the chains and their links in the structure of cellulose. The same groups of chains are responsible for both one-dimensional diffraction and the three-dimensional reflexions.</p> <p>(Chemistry--Organic, TT, v. 5, no. 12)</p>	<p>t-19243</p> <p>1. Cellulose -Molecular structure 2. Cellulose--X-ray analysis I. Kitaygorodskiy, A. I. II. Tsvankin, D. Ya. III. RTS-1595 IV. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>DSIR LLU RTS 1595</p> <p>1665.</p> <p>Office of Technical Services</p>
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From the Field of Hetero-Chain Polyamides.
XIII. Mixed Polyamides Containing Sulfur
Atoms in the Principal Chain, by T. M. Frunze,
V. V. Korshak, 8 pp.

RUSSIAN, per, Vysokomolekulyarnyye
Soyedineniya, Vol I, 1959, pp 293-300.

ATS-38441R

ATC/RCB 11/11/62

Sci

24 Mar 62

The Heterogeneous Polymerization of Sodium Acrylate in the Presence of Other Salts, by V. A. Kargin, V. A. Kabanov, G. P. Andrianova, 15 pp.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol I, No 2, 1959, pp 301-307. 9670224

AFIC MCL-84971

Sci - Chem

161,357

Jul 61

<p>Andreyeva, N. S. THE RELATIONSHIP BETWEEN THE CONFIGURATION OF FIBROUS PROTEINS AND THEIR CHEMICAL STRUCTURE (O Svyazi Prostranstvennoy Strukturny Fibrillyarnykh Belkov s ikh Khimicheskim Stroyeniyem). Jan 61 [12]p. 24 refs. RTS 1596. Order from I.C or SLA mi\$2.40, ph\$3.30 61-15643 Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, no. 2, p. 308-314: An analysis has been made of the dependence of the steric structure of the most important fibrous proteins on their chemical structure. Known polypeptide chain configurations of fibrous proteins are divided into two groups: those which are insensitive to the sequence of amino acids along the peptide chains, and those determined by a specific arrangement of amino acid residues. It has been shown that the first group, which includes all α-structures, may also include proteins with a statistical or almost statistical arrangement of (Chemistry--Organic, TT, v. 5, no. 7) (over)</p>	<p>61-15643 I. Proteins--Analysis I. Andreyeva, N. S. II. RTS-1596 III. Department of Scientific and Industrial Research (Gr. Brit.) 148, 761 Office of Technical Services</p>
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The Role of Free Radicals in the Low-Temperature Cross-Linking (Vulcanization) of Rubber, by B. A. Dogadkin, E. N. Belyayeva, 10 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 2, 1959,
pp 315-323.

PP

Sci - Chem

Apr 61

<p>Kozlov, P. V. [Kubanov, V. A., and Frolova, A. A.] CERTAIN CORRELATIONS IN THE DEVELOPMENT OF UNIAXIAL DEFORMATION IN CRYSTALLINE AND VITREOUS FILMS OF POLYETHYLENE TEREPHTHALATE. [1960] 12p. 11 refs. Order from LC or SLA m\$2.40, ph\$3.30 60-18439</p> <p>Trans. of <u>Vysokomolekulyarnye Soyedineniya</u> (USSR) 1959, v. 1, no. 2, p. [324-329].</p> <p>Polyethylene terephthalate was used to observe the uniaxial deformation of film in the glassy condition and of crystalline films. It was shown that the formation of the so-called "neck" which can take place in "cold stretching" of crystalline and in forced-elastic deformation of amorphous polymers is governed not by phase changes but has a purely relaxation character. The results obtained can be interpreted on the basis of the assumption of a "packet" structure of the crystalline and the amorphous polymers developed by Kargin, Kitagorodskii and Slonimskii (Kolloid. Zhur. [9], 131, 1957) (Author)</p>	<p>60-18439</p> <p>I. Ethylene polymers-- Crystal structure I. Kozlov, P. V. II. Kubanov, V. A. III. Frolova, A. A.</p> <p><i>143,034</i></p> <p>Offices of Technical Services (Chemistry--Organic, TT, v. 3, no. 3)</p>
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Chemical Grafting on Crystalline Surfaces, by V. A.
Kargin, N. A. Plate,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 2,
1959, pp 330-331.

ATS RJ-2128

Sci - Chem

May 60

115,414

Hetero-Chain Polyesters. XVII. Polyesters of
Phosphorus-Containing Dicarboxylic Acids, by
S. V. Vinogradova,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 3,
1959, pp 357-361.

Sci - Chem

ATS RJ-2134
ATS-33L37R

May 60
y

115420
A. S. P. 33L37R
U.S. d. Polyesters. Phos.

<p>Kolesnikov, G. S. and Klimentova, N. V. CARBON CHAIN POLYMERS AND COPOLYMERS. X. BLOCK POLYMERIZATION OF METHYL METHACRYLATE IN THE PRESENCE OF TRIBUTYLBORON. May 61 [12p. 3 refs. Technical notes PRL-TN-48; AD-256 286. Order from OTS or SLA \$1.60 61-19779</p> <p>Trans. of <u>Vysokomolekulyarnye Soedineniya</u> (USSR) 1959, v. 1, no. 3, p. 362-366.</p> <p>DESCRIPTORS: *Polymers, Synthesis, Molecular structure, *Acrylic resins, Polymerization, Methyl radicals. The kinetics of block polymerization of methylmethacrylate in the presence of tributylboron was studied, and the effect of temperature and catalyst concentration on the polymerization rate and on the molecular weight of polymethylmethacrylate elucidated. (Author) (Chemistry--Organic, TT, v. 6, no. 6)</p>	<p>61-19779</p> <p>I. Kolesnikov, G. S. II. Klimentova, N. V. III. Title: Block ... IV. PRL TN-48 V. Feltman Research Labs., Picatinny Arsenal, Dover, N. J. VI. Joint Publications Research Service, New York VII. AD-256 286 <i>1/6626</i></p> <p>Office of Technical Services</p>
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Rafikov, S. R., Pavlova, S. A., and
Tverdokhlebova, L. L.

RELATIONSHIP BETWEEN THE PROPERTIES OF
SOLUTION AND POLYMER STRUCTURE. II. THE
APPLICATION OF PRECISION EBULLIOSCOPY IN
MOLECULAR WEIGHT DETERMINATIONS OF
POLYALUMOORGANOSILOXANES, tr. by I. Gawronska.
Oct 60, 6p. 10 refs. Courtaulds Misc. Lit. 3231;
[DSIR LLU] M. 2675.
Order from OTS or SLA \$1.10

61-23519

Trans. of Vysokomol[ekulyarnye] Soedineniya (USSR)
1959, v. 1, no. 3, p. 400-403.

DESCRIPTORS: *Polymers, *Aluminum compounds,
*Organic compounds, *Silicones, Molecular weight,
Determination.

A highly sensitive ebulliometer is described in which
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-23519

- I. Rafikov, S. R.
- II. Pavlova, S. A.
- III. Tverdokhlebova, L. L.
- IV. Title: Application ...
- V. Courtaulds ML-3231
- VI. DSIR LLU M. 2675
- VII. Courtaulds Ltd.
(Gr. Brit.)

PP
7530

Office of Technical Services

Kolesnikov, G. S., Rodionova, E. F., and Fedorova,
L. S.

CARBON-CHAIN POLYMERS AND COPOLYMERS.
XI. SYNTHESIS, POLYMERIZATION AND COPOLY-
MERIZATION OF ESTERS OF VINYLPHOSPHONIC
ACID. [1961] 6p.

Order from ATS \$11.65

ATS-57N56R

Trans. of Vysokomolekularnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 367-372.
Another trans. is available from OTS or SLA \$1.60 as
61-18631 [1961] 12p.

DESCRIPTORS: *Polymers, Synthesis, Molecular
structure, Polymerization, *Phosphonic acids, Copoly-
merization, Esters. *Vinyl radicals /Benzene/

62-12157

I. Kolesnikov, G. S.
II. Rodionova, E. F.
III. Fedorova, L. S.
IV. ATS-57N56R
V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RJ-3072

Chemical Conversion of Polymers-II. Polyoxycally
of Polyamides, by S. R. Rafikov, G. N. Chelnikov
P. N. Gribkova, 11 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3 -959
pp 378-386.

PP

Sci - Chem

Apr 61

177-41887

<p>Mikhailov, N. V., Tokareva, L. G., and Fainberg, E. Z. ON THE COMPATIBILITY AND MECHANISM OF STABILIZATION OF FIBER-FORMING POLYMER MIXTURES. 2 Nov 62 [14]p. 10 refs. Order from OTS or SLA \$1.60 63-10836 Trans. of Vysokom[olekulyarnye] Soed[ineniya] (USSR) 1959, v. 1, no. 3, p. 404-409.</p> <p>DESCRIPTORS: *Polymers, *Plastics, Fibers (Synthetic), Compatibility, Stabilization, Chemical bonds, Acetyl radicals, Cellulose compounds, *Vinyl chlorides, Nitrocellulose, Chlorination, Heat of solution.</p> <p>The compatibility of the polymers diacetyl cellulose-chlorinated polyvinyl chloride and nitrocellulose-chlorinated polyvinyl chloride was investigated. The (Materials--Plastics, TT, v. 9, no. 12) (over)</p>	<p>63-10836</p> <p>I. Mikhailov, N. V. II. Tokareva, L. G. III. Fainberg, E. Z.</p>	
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Polymer on the Basis of Bicyclo-2,2,1-Heptadiene, by
V. A. Kargin, N. A. Plate, L. A. Dudnik, 6 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3, 1959,
pp 420-424.

PP

Sci - Chem

Apr 61

The Synthesis and Investigation of Hybrid Polymers.
I. Styrene and Isoprene Block Polymers Formed by
Catalytic Polymerization in Solution Under the
Action of Butyl Lithium, by A. A. Korotkov, L. A.
Shibayev, L. M. Pyrkov, 4 pp.

RUSSIAN, per, Vysokomol Soedin, Vol I, No 3, 1959,
pp 443-453.

PP

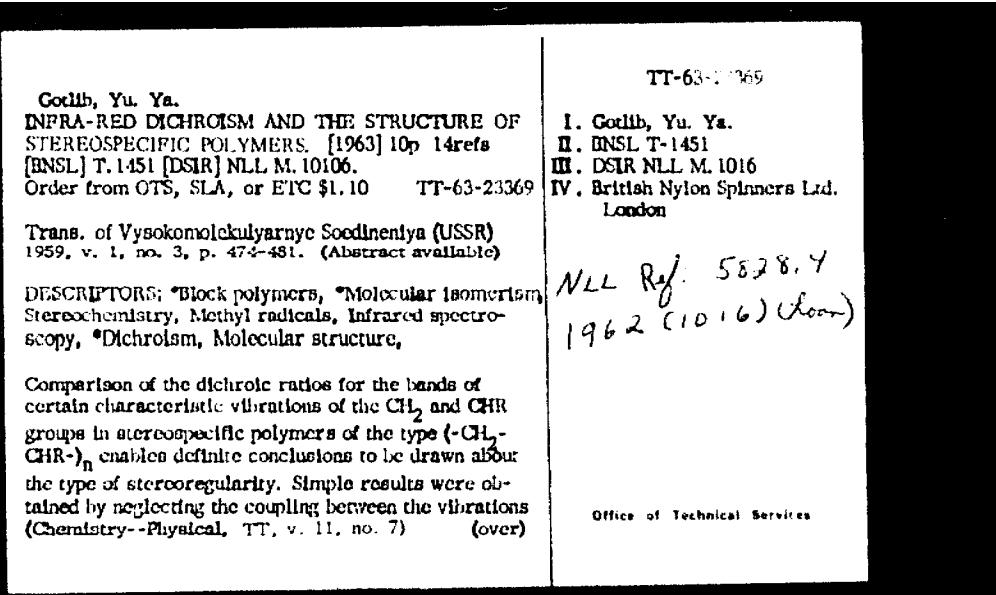
Sci - Chem

Apr 61

Polymerization of Glycidyl Methacrylate,
by I.A. Arbuzova, V.N. Efremova, 6pp.
RUSSIAN, per, Vysokomolekulyarnye Soedin,
Vol 1, No 3, 1959, pp 455-459.
CFSTI ATS-11R78R.

322,316

Sci - Chemistry
Mar 67



Kochkin, D. A., Kotrelev, V. N. and others.
ORGANOTIN POLYMERS. [1961] 4p.
Order from ATS \$4.00 ATS-56N56R

Trans. of Vysokomolokhelyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 482-484.

DESCRIPTORS: *Polymers, *Metalorganic compounds,
*Tin compounds.

DESCRIPTION: **1**Polymer—**2**Metalorganic compounds
Orange, N. J.

DESCRIPTORS: •Polymers, •Metalorganic compounds,
•In compounds

- Tin compounds.

(Chemistry--Organic, TT, v. 7, no. 4)

62-12118

I. Kochkin, D. A.
II. Kotrelev, V. N.
III. ATS-56N56R
IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RT-308d

Office of Technical Services

Investigation of the Dielectric Losses in Poly(Methyl Acrylate) and Poly(Vinyl Acetate), by L. V. Krasner, and G. P. Mikhailov, 7 p.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol I, No 4, 1959, pp 542-548.
ATS-48T90R

Sci-Chem
Jun 88

303,703

Investigation of the Dielectric Losses in Poly
(Methyl Acrylate) and Poly(Vinyl Acetate) by
L. V. Krasner, G. P. Mikhailov.
RUSSIAN, per, Vysokomolekul Soedin,
Vol 1, No 4, 1959, pp 542-548.
ATS-4902

Sci
Dec 68

368,768

Carbochain Polymers and Copolymers, XIV,
Copolymerization of Ethylene with Unsaturated
Compounds in the Presence of Alkyl Boron Compounds,
by H. S. Kolesnikov, A. P. Suprun, T. A. Soboleva,
8 p.

RUSSIAN, per, Vysokomolek Soedineniya, 19⁵⁹,
Vol I, No 4, pp 627-634.

SLA 60-10042

Sci
Apr 60
Vol III, No 3

112,086

Organophosphorus Polymers. VI. Polyamides of Some
Phosphorus-Containing Dicarboxylic Acids, by T. M.
Frunze,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 5,
1959, pp 670-676.

ATS RJ-2133

Sci - Chem

May 60

115419

Organophosphorus Polymers. VII. Mixed Phosphorus-
Containing Polyamides, by T. N. Frunze,

RUSSIAN, par, Vysokomol Soedineniya, Vol I,
No 5, 1959, pp 677-681.

ATS RJ-2135

Sci - Chem

May 60

115,421

<p>Sharkov, B. I. and Levanova, V. P. A STUDY OF THE PACKING DENSITY OF COTTON CELLULOSE PREPARATIONS. [1963] 11p 3refs Order from OTS, SLA, or ETC \$1.60 TT-64-13710</p> <p>Trans. of Vyssokomolekulyarnye Soedineniya (USSR) 1959, v. 1, no. 5, p. 730-737.</p> <p>DESCRIPTORS: *Cellulose, Preparation, *Density, Molecular structure, *Cellulosic plastics, *Rayon fibers.</p> <p>(Materials--Textiles, TT, v. 11, no. 9)</p>	<p>TT-64-13710</p> <p>I. Sharkov, B. I. II. Levanova, V. P.</p> <p>Office of Technical Services</p>
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Mechanical Breakage of Fibres, by A. V. Orlova.

RUSSIAN, per, Vysokomoleklyarnye Soedineniya,
Vol I, No 5, 1959, pp 740-742.

GB/256/T.1044

Sci-Mic Eng'r
Mar 63

225,291

Korstylev, B. N. and Kozlov, P. V.
INVESTIGATION OF RELAXATION PROCESSES IN
CELLULOSE ESTER FILMS. 2 Nov 62 [14]p. 8 refs.
Order from OTS or SLA \$1.60 63-10840

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1959, v. 1, no. 6, p. 793-798.

DESCRIPTORS: *Cellulose esters, *Films, Surface
properties, Relaxation time.

As a result of a short thermal treatment of thin tri-
acetate films at high temperature, a significant im-
provement in their mechanical properties was found.
This treatment is connected with relaxation processes
occurring in the films which lead to a decrease in
internal stresses and to an increase in the packing
density of the molecular chains of the film-forming
substance. (Author)
(Materials--Plastics, TT, v. 9, no. 12)

63-10840
62-26507
I. Korstylev, B. N.
II. Kozlov, P. V.
REVERSE
TRANS
to
FRENCH

Office of Technical Services

Heterochain Polyamides. XXI. The Relationship
Between Melting Point and Structure in Homologous
Series of Heterochain Polymers, by T. N. Frunze,
et al., 11 pp.

RUSSIAN, par, Vysokomolekulyarnye Soyedineniya,
Vol I, 1959, pp 809-818.
Yn-6

AT&T 3541R
A75/RJ-2432

Sci - Chem

Feb 61

138, 275

<p>Korshak, V. V., Gribova, I. A., and Andreeva, M. A. A STUDY ON ORGANOPHOSPHORUS POLYMERS. VIII. POLYESTERS OF PHOSPHONIC ACIDS AND CERTAIN AROMATIC DIOXYCOMPOUNDS. [1961] 6p. 6 refs. Order from OTS or SLA \$1.10</p> <p>Trans. of [Vysokomolekulyarnye Soedineniya] (USSR) 1959, v. 1, no. 6 [p. 823-828].</p> <p>DESCRIPTORS: *Organic compounds, *Phosphorus compounds, *Polymers, Esters, Phosphonic acids, Acids, Quinones, Resorcinol, Propanes, Phenyl radicals, Phenoxy radicals, Synthesis, Molecular structure, Physical properties</p> <p>Polyesters of methylphosphonic, phenylphosphonic and phenoxyphosphonic acid and aromatic dioxycompounds: (Chemistry--Organic, TT, v. 7, no. 9) (over)</p>	<p>62-10105</p> <p>I. Korshak, V. V. II. Gribova, I. A. III. Andreeva, M. A. IV. Title: Polyesters...</p> <p>Office of Technical Services</p>
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<p>Birshteyn, T. M. and Ptitsyn, O. B. ON THE RELATIONSHIP BETWEEN THE STEREO-SPECIFICITY IN POLYMERS AND THE CONDITIONS OF POLYMERIZATION. [1960] 6p. 38 refs. Order from LC or SLA m\$1.80, ph\$1.80 61-10359 Trans. of Vysokomolekulyarnye Soyedineniya (USSR) 1959, v. 1 [no. 6] p. 846-851.</p> <p>146,921</p> <p>(Chemistry--Organic, TT, v. 5, no. 5)</p>	<p>61-10359</p> <p>1. Polymers--Molecular structure 2. Polymerization 3. Stereochemistry 4. Title: Stereospecificity I. Birshteyn, T. M. II. Ptitsyn, O. B.</p>
Office of Technical Services	

Boldreva, I. I., Dolgoplosk, B. A., and Krol, V. A.
REACTIONS OF ORGANOMETAL COMPOUNDS WITH
SALTS OF HEAVY METALS. III. REACTIONS OF
ORGANOALUMINUM COMPOUNDS WITH TITANIUM
HALIDES. 1 Nov 62, 13p. 12 refs.
Order from OTS or SLA \$1.60

63-10835

Trans. of Vysokomol[ekulyarnye] Soed[ineniyu] (USSR)
1959, v. 1, no. 6, p. 900-906.
Another trans. is available from OTS \$1.60 as
AD-273 126, Mar 62, 12p.

DESCRIPTORS: Synthesis, *Catalysts, Metalorganic
compounds, *Aluminum compounds, *Ethyl radicals,
*Titanium compounds, *Halides, *Complex compounds,
Catalysis, Polymerization, Stereochemistry, Molecular
isomerism.

A study was made of the products of the interaction of
the catalyst components used for producing stereo-
(Chemistry--Organic, TT, v. 9, no. 11) (over)

63-10835

I. Boldreva, I. I.
II. Dolgoplosk, B. A.
III. Krol, V. A.
IV. Title: Reactions...

Office of Technical Services

Kargin, V. A., Gorina, A. A., and Koretskaya, T. A.
AN ELECTRON-MICROSCOPIC STUDY OF THE
MECHANISM OF THE SINTERING OF POLYTETRA-
FLUOROETHYLENE (FTOROPLAST-4). [1961] 7p.
Order from ATS \$10.40 ATS-74N53R

Trans. of *Vysokomolekulyarnye Soedineniya* (USSR)
1959, v. 1, no. 8, p. 1143-1147.

DESCRIPTORS: *Ethylenes, *Fluorides, Polymers,
Sintering, Optical analysis, *Electron microscopy.

(Chemistry--Organic, TT, v. 6, no. 8)

61-25333

- I. Title: Ftoroplast-4
- II. Kargin, V. A.
- III. Gorina, A. A.
- IV. Koretskaya, T. A.
- V. Associated Technical Services, Inc.,
East Orange, N. J.

ATS/RJ-3006

165229

Office of Technical Services

Electron Paramagnetic Resonance Study of Radicals Formed
in Irradiation of Polyethylene With Fast Electrons,
by A. T. Koritskiy,

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 8,
1959, pp 1182-1193.

ATS RJ-2120
AEC D-4409

May 60

115,407

Selikhova, V. I., Markova, G. S., and Kargin, V. A.
A COMPARATIVE INVESTIGATION OF HIGHLY
ORIENTATED CRYSTALLINE AND AMORPHOUS
POLYMERS. [1963] (13p) 19refs [BNSL] T. 1561;
[DSTR] NLL M. 10489.
Order from OTS, SLA, or ETC \$1.60 TT-64-15263
Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959. v. 1, no. 8, p. 1214-1226.

TT-64-15263

I. Selikhova, V. I.
II. Markova, G. S.
III. Kargin, V. A.
IV. BNSL-T-1561
V. DSTR-NLL-M. 10489
VI. British Nylon Spinners
Ltd., London (England)

(Physics--Solid State, TT, v. 12, no. 2)

Office of Technical Services

<p>Spirin, Yu. L., Gantmakher, A. R., and Medvedev, S. S. THE MECHANISM OF POLYMERIZATION IN THE PRESENCE OF ORGANIC ALKALINE METAL COM- POUNDS (O Mekhanizme Polimerizatsii Prisutstviyu Organicheskikh Soyedinenii Shchelochnykh Metallov) tr. by G. Belkov. 1960, 15p. 15 refs. Technical trans. 911. Order from NRCC \$1.00 NRCC C-3481 Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, no. 8, p. 7238-2102. Another translation is available from ATS \$12.95 as ATS-60M41R [1960] 8p. 151484</p> <p>(Chemistry--Organic, TT, v. 5, no. 8)</p>	<p>61-12617</p> <p>1. Polymerization-- Stimulation 2. Organic compounds-- Catalytic properties 3. Alkali metals--Catalytic properties I. Spirin, Yu. L. II. Gantmakher, A. R. III. Medvedev, S. S. IV. NRCC TT-911 V. NRCC C-3481 VI. National Research Council of Canada ATS - RJ - 2655</p> <p>Office of Technical Services</p>
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Kolesnikov, G. S. and [Fedorova, L. S.].
CARBOCHAIN POLYMERS AND COPOLYMERS. XII.
EMULSION POLYMERIZATION OF VINYL COM-
POUNDS IN THE PRESENCE OF TRIBUTYLBORON.
[1960] 8p. 6 refs.

Order from SLA m\$1.80, ph\$1.80 60-18428

Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)
1959, v. 1 [no. 8] p. 1266-1269.

It was shown that the polymerization of acrylonitrile in emulsion and with the use of tributylboron as a catalyst takes place only in the presence of oxygen or an oxygen donor, for example hydrogen peroxide. Methylmethacrylate and styrene polymerize in the absence of oxygen with diminished yields below those in the presence of oxygen. The formation of compounds of a peroxide nature was shown qualitatively in emulsion polymerization of acrylonitrile in the presence of tri-

60-18428

1. Boron compounds (Organic)--
Chemical reactions
2. Vinyl polymers--Synthesis
I. Kolesnikov, G. S.
II. Fedorova, L. S.
III. Title: Emulsion...

1431040

<p>Golova, O. P., Krylova, R. G., and Nikolayeva, I. I. MECHANISM OF THE THERMAL DECOMPOSITION OF CELLULOSE IN A VACUUM. I. COMPARATIVE STUDY OF THE THERMAL DECOMPOSITION OF COTTON CELLULOSE AND CELLULOSE HYDRATE (O Mekhanizme Termicheskogo Raspliva Tsellyulozy v Vakuume. I. Sravnitel'noye Izuchenie Termi- cheskogo Raspliva Klopkovoy i Gidrattsellyulozy). Feb 61 [14]p. 18 refs. RTS 1650. Order from LC or SLA mi\$2.40, ph\$3.30 61-15921</p> <p>Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, no. 9, p. 1295-1304.</p> <p>A study was made of the products of thermal decom- position, obtained at different stages of thermal action on cotton cellulose in a vacuum. Two stages were defined in the thermal decomposition of cotton cel- lulose; the first stage covers the decomposition of the first 10 - 20%, and the second stage includes that of the following 70 to 80% of the specimen. A study was (Chemistry--Organic, TT, v. 5, no. 8) (over)</p>	<p>61-15921</p> <p>I. Cellulose--Decomposition I. Golova, O. P. II. Krylova, R. G. III. Nikolayeva, I. I. IV. Title: Comparative... V. RTS-1650 VI. Department of Scientific and Industrial Research (Qr. Brit.)</p> <p>151693</p> <p>Office of Technical Services</p>
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Korotkov, A. A., Mitsengendler, S. P. and others.
SYNTHESIS OF POLYMETHYL METHACRYLATE
WITH REGULAR MICROSTRUCTURE. [1960] 8p.
Order from ATS \$11.00 ATS-70N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 9, p. 1319-1326.

61-12768

- I. Methyl acrylate--Synthesis
- II. Korotkov, A. A.
- III. Mitsengendler, S. P.
- IV. ATS-70N48R
- V. Associated Technical Services, Inc., East Orange, N. J.

151524

(Chemistry--Organic, TT, v. 5, no. 8)

Office of Technical Services

Molecular Ordering of Polymers Precipitated
from Solution, by L. A. Igomin.
RUSSIAN, per, Vysokomolekul Soedin, Vol 1,
No 9, 1959, pp 1327-1332.
ATS RJ-4957

Sci-Mat
Feb 69

373,774

Molecular Orientation of Polymers Precipitated
From Solutions, by I. A. Igoshin, et al.

RUSSIAN, per, Vysokomol Soedin, Vol 1,
No 9, 1959, pp 1327-1332

CSIRO

Sci - Chem
Oct 61

171, 387

Polymers With Conjugated Bonds in the Macromolecular Chains. Part 2. Paramagnetism and Some Other Properties of Polyarivinylones, by A. A. Berlin,

RUESSIAN, per, Vysokomol Soedineniya, Vol I, No 9,
1959, pp 1361-1363.

ADS RJ-2125

Sci - Chem
CH

May 60

NLL RTS 1704

115, 411

Preparation of Graft Copolymers III.
I. Grafting of Vinyl Monomers to Polyamides,
by V. V. Korshak, K. K. Mozgova, M. A. Shkolina,
6 pp.

RUSSIAN, per, Vysokomolek Soyed, Vol I, No 9,
1959, pp 136-1368. 9092918

MDF K-208

Sci.
Nov 61

173, 472

A Study of the Polymerization of Styrene Mole-
cular on Ziegler-Type Catalyst by the Method
of Molecular Beams, by V. A. Kabanov,
V. P. Zubov, et al.

RUSSIAN, par, Vysokomolekulyarnyye Soyed,
Vol I, No 9, 1959, pp 1422-1427.

AT&T-59MAILR ATS-RJ-2652

Sci
Vol IV, No 11
Jun 62

199, 238

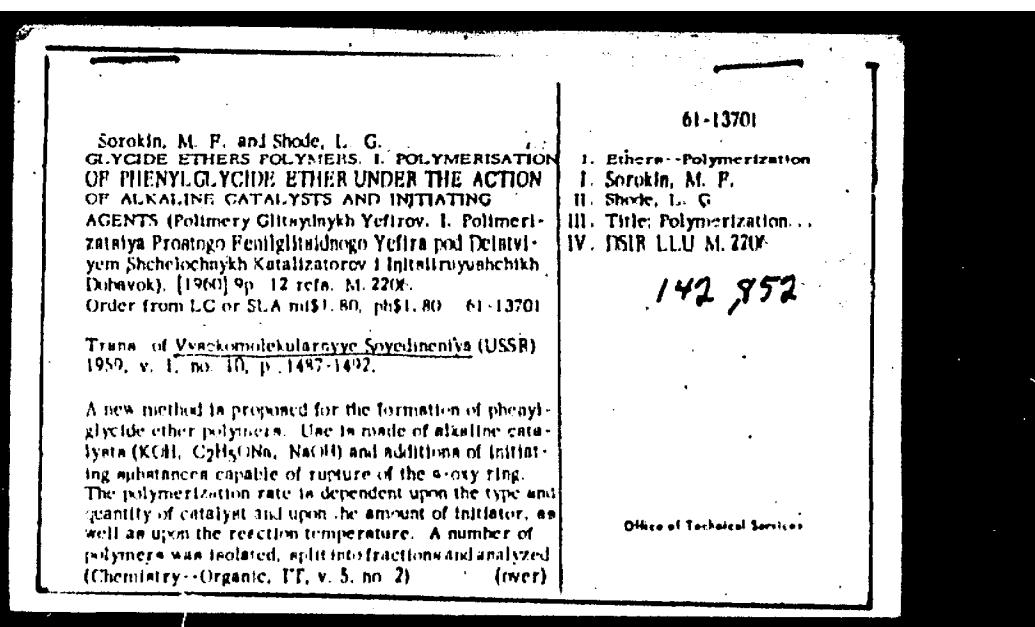
The Light Aging of Polymethyl Methacrylate
I. Kinetics of Gas Evolution as Affected
by Light of Varying Wavelength, the Quantum
Yield of Photodegradation, by M. I. Frolova,
A. V. Ryabov.

RUSSIAN, per, Vyssokomolekulyarnyye
Soyedineniya, Vol I, No 10, 1959,
pp 1453-1455.

AT&T-RJ-2681
AT&T-53043R

Sci.
Vol IV, No 9
Mar 62

187, 192



Kolesnikov, G. S., Davydova, S. I., and
Yermolayeva, T. I.
CARBOCHAIN POLYMERS AND COPOLYMERS. XVII.
POLYMERISATION OF DIALLYL DERIVATIVES OF
SILICON AND GERMANIUM (Karbopolimery. Polimery
i Sorbimery. XVII. Polimerizatsiya Diallylnykh
Privzyndnykh Kremniya i Germaniya). [1960] 4p.
8 refs. M. 2207.
Order from LC or SLA mrs \$1.80, 16\$1.80 61-13702

Trans. of Vysokomolekulyarnye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1493-1495.

Diallyl derivatives of silicon and germanium in presence of triethylaluminum and titanium tetrachloride yield low molecular weight polymers. A structure is proposed for the products obtained.

(Chemistry--Organic, TT, v. 5, no. 2)

תג-1302

1. Alkyl compounds
Polymerization
 2. Silicox compounds
(Organic)-Polymerization
 3. Germanium compounds
(Organic)-Polymerization
 1. Kolesnikov, G. S.
 - II. Davydova, S. L.
 - III. Yermolayeva, T. I.
 - IV. Title: Polymerization, ...
 - V. DSIR LLL M. 2207

Office of Technical Services

<p>Kochkin, D. A., Kotrelev, V. N. and others. ORGANOTIN MONOMERS AND POLYMERS (Olevoorganicheskije Monomery i Polimery). [1960] 11p. 6 refs. M. 2210. Order from LC or SLA m1\$2.40, ph\$3.30 61-13705 Trans. of Vysokomolekularnye Soyedineniya (USSR) 1959, v. 1, no. 10, p. 1507-1513.</p>	<p>61-13705</p> <p>1. Tin compounds (Organic)-- Polymerization 2. Copolymerization I. Kochkin, D. A. II. Kotrelev, V. N III. DSIR LLU M. 2210</p>
<p>Office of Technical Services</p>	
<p>(Chemistry--Organic, TT, v. 5, no. 2)</p>	

Stavitskiy, I. K. and Borisov, S. N.
HYDROLYSIS OF DIMETHYLDICHLOROSILANE BY
SODIUM ALUMINATE SOLUTIONS (Gidroliz
Dimetildiklorosilana Rastvorami Alyuminata Natryya).
[1960] 9p. 16 refs. M. 2208.
Order from LC or SLA m\$1.80, ph\$1.80 61-13703

Trans. of Vysokomolekularnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1496-1501.

Experiments showed that in a strongly alkaline medium the hydrolysis of dimethyldichlorosilane by aqueous sodium aluminate solutions is accompanied by the formation of polydimethylalumasiloxane polymers. Their consistency depends upon the Si:Al ratios. Low molecular weight pseudo-rubber unstable polymers are formed on alkaline polymerization of oily poly-dimethylalumasiloxanes. They do not possess the properties of organosilicon elastomers.

(Chemistry--Physical, TT, v. 5, no. 2)

61-13703

1. Silicon compounds
(Organic)--Hydrolysis
2. Sodium aluminates--
Chemical reactions
- I. Stavitskiy, I. K.
- II. Borisov, S. N.
- III. DSIR LLU M. 2208

141,184

Office of Technical Services

Polymerisation and Copolymerisation of Fluorinated Styrenes, by A. R. Gantmakher, Yu. L. Spirin, 8 pp.

RUSSIAN, per, ■ Vysokomolekularnyye Soyedineniya,
Vol I, No 10, 1959, pp 1526-1530.

OTS 61-13703

Sci

Sep 62

Bessonov, M. I. and Kuvshinovskiy, Ye. V.
CERTAIN FEATURES OF THE DESTRUCTION OF
ANNEALED POLYSTYRENE (O Nekotorykh
Ozobrazostyakh Razrusheniya Zakanennogo Polistirola).
[1960] 7p. 6 refs. M. 2219.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13714

Trans. of Vysokomolekularnyye Soyedineniya (USSR)
1959, v. 1, no. 10, p. 1561-1565.

Experiments showed that annealed specimens of polystyrene fracture along large internal crevices. The material filling the crevice remains on the fracture surface, and can be removed in the form of a thin film. The properties are explained by the packet structure of the linear block polymers.

141, 161

(Chemistry--Organic, TT, v. 5, no. 2)

61-13714

- I. Styrene polymers--
Decomposition
- II. Bessonov, M. I.
- III. Kuvshinovskiy, Ye. V.
- III. DSIR LLU M. 2219

Office of Technical Services

<p>Izvetkov, Yu. D., Lebedev, Ya. S., and V. V. Movzovskiy</p> <p>STUDIES OF FREE RADICAL REACTIONS IN IRRADIATED POLY(ETRAFLUOROETHYLENE). I. THE APPLICATION OF THE ELECTRON PARAMAGNETIC RESONANCE METHOD FOR THE INVESTIGATION OF THE CONVERSION OF RADICALS AND THE TERMINATION OF THE OXYGEN DIFFUSION COEFFICIENT IN POLY(ETRAFLUOROETHYLENE) Radiativnye Reaktsii Svoistvnykh Radikalov v Vysokomolekulyarnom Politetrafluoretilene. I. Primenenie Metoda Elektronnoj paramagnitnogo Rezonansia dlya Issledovaniya Prevrashchenij Radikalov i Opredeleniya Koeffitsienta Diffuzii Kisloroda v Politetrafluoretilene Izdat. Akad. Nauk SSSR M. 2212.</p> <p>Order from LC or SLA m\$2.40, ph\$3.30 61-13707</p> <p>Transl. of Vysokomolekularnyye Soyedineniya (USSR) 1959, v. 17 no. 10, p. 1519-1525. Another translation is available from LC or SLA m\$1.80, ph\$1.80, ad 60-16511 (1960) 10p.</p> <p>(Chemistry--Physical, TT, v. 3, no. 2)</p>	<p>61-13707</p> <p>1. Free radicals--Chemical reactions 2. Fluoromethyl polymers Effects of radiation 3. Magnetic resonance--Applications 4. Oxygen diffusion I. Izvetkov, Yu. D. II. Lebedev, Ya. S. III. Movzovskiy, V. V. IV. DSIF 11 U M 2212</p> <p><i>142,868</i></p> <p>S-A 60-16511</p> <p>Office of Technical Services</p>
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CEA-tr-R-135⁴ Unc1. (Card 2)

Yu. (Ju.) D. Tsvetkov, Ya. (Ja.) S. Lebedev,
and V. Voevodskii (Voevodskij). Translated
into French from Vysokomolekulyarnye
Sledinenya, 1: 1519-25(1959). 23p. 9C82385

Chemistry; Radiation Effects; Translations
MC-4

C-4 NP NSA Dep.(mc); \$2.60(fs), \$0.89(mf)
JCL or LC

N-8

<p>Gantmakher, A. R., Spirin, Yu. I., and Medvedev, S. S. POLYMERISATION AND COPOLYMERISATION OF FLUORINATED STYRENES (Rizdatiya i Svremennoye Polimerizatsiya I upravleniye khimicheskimi [1960] 8p. 5 refe. M. 2213. Order from LC or SLA m\$1.80, ph\$1.80 61-13708 Trans. of <i>Vysokomolekularnyye Soedineniya</i> (USSR) 1959, v. 1, no. 10, p. 1526-1530.</p> <p style="text-align: center;">142,777</p> <p>(Chemistry--Organic, TT, v. 5, no. 2)</p>	<p>61-13708</p> <p>1. Fluorine compounds (Organic)--Polymerization 2. Styrene--Polymerization 3. Copolymerization I. Gantmakher, A. R. II. Spirin, Yu. I. III. Medvedev, S. S. IV. DSIR LRU M. 2213</p> <p>Office of Technical Services</p>
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<p>Gantmakher, A. R., Spirin, Yu. L., and Medvedev, S. S. POLYMERISATION AND COPOLYMERISATION OF FLUORINATED STYRENES (Razdejnaya i Sovmestnaya Polymerizatsiya Fluorirovannykh Stirolov). (1960) 8p. 5 refs. M. 2213. Order from LC or SLA mi\$1.80, ph\$1.80 61-13708 Trans. of Vysokomolekularnyye Soyedineniya (USSR) 1959, v. 1, no. 10, p. 1526-1530.</p> <p style="text-align: center;">142,777</p> <p>(Chemistry--Organic, TT, v. 5, no. 2)</p>	<p>61-13708</p> <p>1. Fluorine compounds (Organic)--Polymerization 2. Styrenes--Polymerization 3. Copolymerization I. Gantmakher, A. R. II. Spirin, Yu. L. III. Medvedev, S. S. IV. DSIR LLU M. 2213</p> <p>Office of Technical Services</p>
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Some Properties of Starch-Methyl Methacrylate Graft Copolymers, by V. A. Kargin, N. A. Flata, E. P. Rebinder.

RUSSIAN, per, Vysokomolekulyarnye Sovedineniya, Vol I, No 10, 1959, pp 1547-1551.

AT&T-52443R
AT&T/RJ-2-451

194,303

Sci
Vol 4, No 10

May 62

Moyseyev, V. D., Neyman, M. B., and Kryukova,
A. I.
THERMAL DEGRADATION OF POLYPROPENE
(Termicheskaya Destruktiya Polipropilena). [1961]
8p. (5 figs. omitted) 8 refs.
Order from LC or SLA m1\$1.80, ph\$1.80 61-10983

Trans. of Vysokomolekulyarnye Soyedineniya (USSR)
1959, v. 1 [no. 10] p. 1552-1557.
Another translation is available from LC or SLA as
61-13712, DSIR LLU M. 2217 [1960] 10p.

For abstract see Technical Translations S: 114, 1961.

(Chemistry--Organic, TT, v. 5, no. 11)

A suspended lever Ubbelohde type viscometer is
described that is suitable for determinations with

61-10983

- I. Propenes--Decomposition
I. Moyseyev, V. D.
II. Neyman, M. B.
III. Kryukova, A. I.

15899

Office of Technical Services

<p>Usmanov, Kh. U., Aykhodzhayev, B. I., and Azizov, U. O. PREPARATION OF GRAFT COPOLYMERS OF CELLULOSE BY IRRADIATION WITH Co-60 (Polucheniye Privitykh Sopolimerov Tselyulosy Solucheniem Co-60). [1960] 3p. M. 2221. Order from LC or SLA mi\$1.80, ph\$1.80 61-13716</p> <p>Trans. of Vysokomolekularnye Soedimentiya (USSR) 1959, v. 1, no. 10, p. 1570. Another translation is available from LC or SLA mi\$1.80, ph\$1.80 as 60-18467 [1960] 3p.</p> <p>(Chemistry--Organic, TT, v. 5, no. 2)</p>	<p>61-13716</p> <p>I. Cellulose--Polymerization I. Usmanov, Kh. U. II. Aykhodzhayev, B. I. III. Azizov, U. O. IV. DSIR LLU M. 2221</p> <p>141, 187</p>	
<p>Office of Technical Services</p>		

Korshak, V. V., Moegova, K. K., and Shkolina, M. A.
PREPARATION OF GRAFT COPOLYMERS. IV.
GRAFTING OF STYRENE TO POLYAMIDES. [1961]
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Order from OTS or SLA \$1.10 61-20636

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1959, v. 1 [no. 11] p. 1573-1579.

DESCRIPTORS: Polymers, *Amides, Polymerization,
*Copolymerization, *Styrenes, Physical properties,
Chemical properties.

Graft polymers were obtained from ozone-treated poly-
caprolactam and mixed polyamide Anide G-669, and
styrene. Several physical and physico-chemical prop-
erties of graft polymers were studied. These differ
noticeably from the properties of the initial polyamides.
(Engineering-Chemical, TT, v. 7, no. 7) (over)

61-20636

I. Korshak, V. V.
II. Moegova, K. K.
III. Shkolina, M. A.
IV. Title: Grafting ...

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Korshak, V. V., Zamyatina, V. A., and
Bekasova, N. L
HETEROCHAIN POLYESTERS. XXV. INVESTIGA-
TION OF POLYCONDENSATION IN A THIN LAYER.
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1959, v. 1, no. 11, p. 1586-1592.

DESCRIPTORS: *Polyester plastics, *Phthalates,
*Condensation reactions, Thin films, Reaction
kinetics, Catalysis, Heat of activation, *Ethylenes,
Glycols, Evaporation, Heat transfer.

Polycondensation of polyethyleneterephthalate in a thin
layer at atmospheric pressure was investigated. An
inverse dependence of the reaction speed on the thick-
ness of the layer of reacting substance was established.
(Materials--Plastics, TT, v. 10, no. 11) (over)

63-18263

- I. Title: Polyethylene
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Sci
May 62

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ETUDE DES RÉACTIONS DES RADICAUX LIBRES, DANS
LE POLYTETRAFLUORETHYLENE IRRADIÉ. II. DETER-
MINATION DES CONSTANTES DES VITESSES DE REAC-
TIONS SUIVANTES: $\text{RO}_2 \rightarrow \text{R} + \text{O}_2$ ET $\text{R} +$
 $\text{O}_2 \rightarrow \text{RO}_2$. (Study of Reactions of Free
Radicals in Irradiated Polytetrafluoroethylene.
II. Determination of Reaction Rate Constants
According to: $\text{RO}_2 \rightarrow \text{R} + \text{O}_2$ and $\text{R} + \text{O}_2 \rightarrow \text{RO}_2$).
Yu. D. Tsvetkov (Ju. D. Cvetkov), Ya. (Ja.) S.
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Apr 62

Vol IV, No 6